

DISTRIBUTION
UNIT MANAGERS' MEETING
200 AREA GROUNDWATER AND SOURCE OPERABLE UNITS

Bryan Foley.....	DOE-RL RP (A5-13)
Marvin Furman	DOE-RL RP (A5-13)
Ellen Mattlin	DOE-RL EAP (A2-15)
Mike Thompson	DOE-RL RP (A5-13)
Arlene Tortoso	DOE-RL RP (H0-12)
Lisa Treichel	DOE-HQ (EM-442)
Dennis Faulk.....	EPA (B5-01)
Brenda Becker-Khaleel.....	WDOE (Kennewick) (B5-18)
Zelma Maine	WDOE (Kennewick) (B5-18)
Matt Mills.....	WDOE (Kennewick) (B5-18)
John Price.....	WDOE (Kennewick) (B5-18)
Tina Masterson-Heggen	WDOE (Kennewick) (B5-18)
Jeff Armatrout	BHI (H0-19)
Chloe Brewster	BHI (H0-19)
Garrett Day	BHI (H0-19)
Bruce Ford.....	BHI (H0-19)
Greg Mitchem	BHI (H0-21)
Joan Woolard.....	BHI (H0-02)
Tim Lee.....	CHI (H9-02)
Virginia Rohay	CHI (H0-19)
L. Craig Swanson.....	CHI (H9-02)
Mary Todd.....	CHI (H9-03)
Curtis Wittreich	CHI (H9-03)
Stuart Luttrell	PNNL (K6-96)
Mark Sweeney	PNNL (K6-81)
Administrative Record (2)	BHI (H0-09)

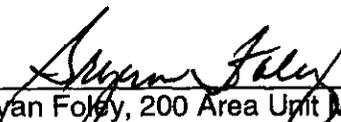
Please inform Chloe Brewster – BHI (372-9377)
of deletions or additions to the distribution list.

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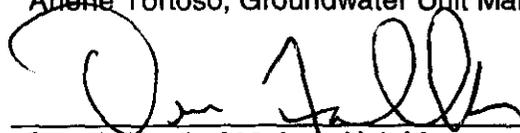
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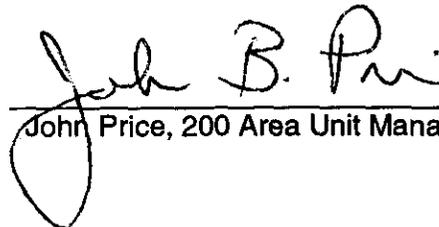
Meeting Minutes Transmittal/Approval
Unit Managers' Meeting
200 Area Groundwater and Source Operable Units
3350 George Washington Way, Richland, Washington
July 2000

084916

APPROVAL:  Date Dec 3, 2000
Bryan Foley, 200 Area Unit Manager, DOE/RL (A5-13)

APPROVAL:  Date Dec. 18, 2000
Arlene Tortoso, Groundwater Unit Manager, DOE/RL (H0-12)

APPROVAL:  Date 12-20-00
Dennis Faulk, 200 Area Unit Manager, EPA (B5-01)

APPROVAL:  Date Dec. 20, 2000
John Price, 200 Area Unit Manager, Ecology (B5-18)

Meeting minutes are attached. Minutes are comprised of the following:

Attachment 1	--	Agenda
Attachment 2	--	Attendance Record
Attachment 3	--	200 Area UMM Minutes – July 2000
Attachment 4	--	Carbon Tetrachloride Rebound Concentrations Monitored at 200-ZP-2
Attachment 5	--	Soil Vapor Extraction Sites

Prepared by:


Chloe Brewster, BHI GW/VZ Integration Project (H0-19)

Date

9/26/00

Concurrence by:


Bruce Ford, BHI GW/VZ Integration Project (H0-19)

Date

11/28/00

UNIT MANAGERS' MEETING AGENDA

084916

3350 George Washington Way, Conference Room 1B-40

July 20, 2000

9:00 – 11:00 a.m. 200 Area**General (20 minutes)**

- Outstanding Action Items
- Passive neutron geophysical tool demonstration at Borehole 299-W18-159 (216-Z-1A) Drain Tile/Field and Borehole 299-W18-179 (216-Z-12 Crib) in mid-August
- Clastic Dike Investigation
- Update of five-year review

200-CW-1 Gable/B Pond and Ditches Cooling Water OU (20 minutes)

- Work Plan Status
- Remedial Investigation Report Status
 - Summary Results
 - Draft A submittal 8/15/00; Regulator Review 8/16-9/15, 2000
- IDW Status

200-CS-1 Chemical Sewer OU (5 minutes)

- Work Plan Status

200-CW-5 U Pond/Z Ditches Cooling Water OU (5 minutes)

- Work Plan Status

200-TW-1 Scavenged and 200-TW-2 Tank Waste OUs (5 minutes)

- Work Plan Status
 - Draft A submittal 8/18/00; Regulator Review 8/21-9/20, 2000

200-PW-2 Uranium-Rich Process Waste OU (5 minutes)

- Work Plan and DQO Schedule
 - DQO Regulator Workshop 8/08/00
 - Draft A Work Plan submittal 12/29/00; Regulator Review 1/01 – 1/31/01

200-UP-1 (10 minutes)

- Status Operational Update
- Status of Regulator Review – Waste Management Plans

200-ZP-1 (10 minutes)

- Status Operational Update
- Status of Regulator Review - ERA

200-ZP-2 (20 minutes)

- Status Monitoring Data Evaluations

**MEETING MINUTES
200 AREA GROUNDWATER AND SOURCE OPERABLE UNITS
UNIT MANAGERS' MEETING -- 200 AREA
JUNE/JULY 20, 2000**

084916

Attendees: See Attachment #2

Agenda: See Attachment #1

Topics of Discussion:

1. General

- Ecology was not in attendance for today's meeting, 200-CW-1, 200-CS-1, 200-CW-5, 200-TW-1, 200-PW-2 and 200-UP-1 will not be discussed.
- Outstanding Action Items. We need to produce an opening action log.
- Passive neutron geophysical tool demonstration at Borehole 299-W18-159 (216-Z-1A) Drain Tile/Field and Borehole 299-W18-179 (216-Z-12 Crib) in mid-August. Curt Wittreich stated that this should be completed the first week in August, a low cost effort. Dennis Faulk asked; will it produce waste, Bruce Ford replied no, however, we will look into this. If there is waste we will contact you (Dennis Faulk/EPA).
- Clastic Dike Investigation - Bruce Ford – S&T effort, borrow area to begin work, will start around July 24, 2000. Use of inferred technologies. This is outside the waste area. Chris Murray – will be the principal investigator. This needs to be added to future UMM agenda status items. Can data be accessed through the groundwater web page?
- Five-Year Review – EPA stated that they are continuing to work on the 5-year review for the 200 Areas. The scope of the review includes soil, groundwater and major D&D projects in the 200 Area. Major findings revolve around the carbon tetrachloride project and the 200-UP-1 pump and treat. Neither project appears to be meeting the RAO's and enhancements may be required. In addition, EPA and Ecology are beginning to prepare a letter outlining DOE's failure to perform per the TPA regarding submittal of the CW-1 and CW-5 workplans for approval with change packages attached. Dennis Faulk indicated that this is the first notification to DOE and Bryan Foley indicated he would discuss the issue of developing change packages with his management.
- Bryan Foley, DOE asked Dennis Faulk, EPA for a request of the approval of the Implementation Plan. Bryan stated that this is a key document. Dennis Faulk indicated that EPA would need the schedules and then EPA may approve.

- Z361 - Dennis Faulk asked if anyone from ER was following this project. The data is back and the approach is to do a non-time critical removal action. Bryan Foley asked *what the justification for moving forward on this project is*. Dennis Faulk stated that this tank contains a large inventory of plutonium, PFP has a trained work force and we wanted to continue the momentum the project has gained.
1. 200-ZP-2
 - Comments were incorporated Friday, July 14, 2000 on the Waste Management Plan for ZP-1 and ZP-2. Signatures were obtained from Arlene Tortoso, DOE and Dennis Faulk, EPA. Drilling of the RCRA wells (CY00 Tank Farm S-SX, T, TX-TY) is scheduled for Monday, July 24, 2000.
 2. 200-ZP-1
 - Arlene would like to be notified when systems go down. One sampling event was missed due to the Hanford fire. Dennis Faulk stated that the well monitoring network needs to be reviewed, updated, and agreed by all.
 - PITT – proposal and test level. EPA would like to have the Expert Panel to review it at the same time that the regulators are.

Comparison of Maximum Carbon Tetrachloride Rebound Concentrations
Monitored at 200-ZP-2 Soil Vapor Extraction Sites
FY 1997 - FY 2000

200-ZP-2				November 1996 -		October 1997 -		July 1998 -		July 1999 -	
Location				July 1997		September 1998		September 1999		May 2000	
(Well or Probe)	Site	Zone	Maximum Rebound	months*	Maximum Rebound	months*	Maximum Rebound	months*	Maximum Rebound	months*	
/feet bgs			Carbon Tetrachloride	of	Carbon Tetrachloride	of	Carbon Tetrachloride	of	Carbon Tetrachloride	of	
			(ppmv)	rebound	(ppmv)	rebound	(ppmv)	rebound	(ppmv)	rebound	
79-03/ 5 ft	Z-18	1	0	8	0	3	0	12			
79-06/ 5 ft	Z-1A	1	not measured		not measured		1.4	12			
79-11/ 5 ft	Z-1A	1	0	8	0	6	2.9	12			
86-05/ 5 ft	Z-9	1	not measured		not measured		0	3			
86-05-01/ 5 ft	Z-9	1	not measured		not measured		0	3			
86-06/ 5 ft	Z-9	1	1.3	8	0	9	1.9	6			
87-05/ 5 ft	Z-1A	1	not measured		0	3	1.0	12			
87-08/ 5 ft	Z-1A	1	not measured		1.5	3	2.6	12			
94-02/ 5 ft	Z-9	1	0	8	not measured		1.4	3			
95-11/ 5 ft	Z-9	1	0	8	2.1	9	2.5	6			
95-12/ 5 ft	Z-9	1	1.1	8	1.5	9	1.3	6			
95-14/ 5 ft	Z-9	1	not measured		not measured		0	3			
CPT-13A/ 9 ft	Z-1A	2	not measured		0	6	1.0	12			
CPT-16/ 10 ft	Z-9	2	not measured		0	9	1.5	6			
CPT-17/ 10 ft	Z-9	2	not measured		4.2	9	5.1	6	5.1	12	
CPT-18/ 15 ft	Z-9	2	not measured		6.5	9	5.0	6	5.2	12	
CPT-31/25 ft	Z-1A	2	not measured		0	6	0	12			
CPT-18/ 25 ft	Z-9	2	not measured		not measured		not measured		2	12	
CPT-32/ 25 ft	Z-1A	2	not measured		9.1	6	10	12	9.4	9	
CPT-30/ 28 ft	Z-18	2	not measured		not measured		3.2	12	1.4	9	
CPT-13A/ 30 ft	Z-1A	2	2.2	8	not measured		not measured		3.4	9	
CPT-7A/ 32 ft	Z-1A	2	not measured		2.3	6	5.4	12	6.2	9	
CPT-27/ 33 ft	Z-9	2	1.2	8	not measured		not measured		1.6	12	
CPT-1A/ 35 ft	Z-18	2	2.0	8	1.4	3	3.0	12	4.2	9	
CPT-33/ 40 ft	Z-1A	2	not measured		2.0	3	2.8	12			
CPT-34/ 40 ft	Z-18	2	2.3	8	not measured		1.7	12			
CPT-21A/ 45 ft	Z-9	2	65.6	8	52.7	9	57	3	94	12	
W15-220SST/ 52 ft	Z-9	2	2	8	not measured		1.6	3			
CPT-28/ 60 ft	Z-9	2	not measured		1.5	0	3.7	3			
CPT-9A/ 60 ft	Z-9	2	45.5	8	41.1	0	44	3	68	12	
CPT-30/ 68 ft	Z-18	2	1.7	8	not measured		3.0	12			
CPT-13A/ 70 ft	Z-1A	2	5.2	8	not measured		5.6	12			
CPT-24/70 ft	Z-9	2	not measured		3.2	9	3.8	3			
W15-219SST/ 70 ft	Z-9	2	14.6	8	not measured		7.6	3			
CPT-31/ 76 ft	Z-1A	2	4.0	8	not measured		4.2	12			
CPT-33/ 80 ft	Z-1A	2	5.8	8	not measured		9.2	12			
W15-82/ 82 ft	Z-9	2	28.9	8	5.5	9	46	6	43	12	
W15-95/ 82 ft	Z-9	2	not measured		15.3	9	39	6	22	12	
CPT-21A/ 86 ft	Z-9	2	221	8	206	9	148	6	195	12	
CPT-34/ 86 ft	Z-18	2	36.3	8	5.9	3	0	12			
W15-218SST/ 86 ft	Z-9	2	not measured		not measured		0	3			
CPT-28/ 87 ft	Z-9	2	280	8	230	9	203	6	205	12	
CPT-1A/ 91 ft	Z-18	2	3.9	8	not measured		4.2	12			
CPT-4A/ 91 ft	Z-1A	2	not measured		7.7	3	14	12			
CPT-9A/ 91 ft	Z-9	2	103	8	34.5	9	72	3			
W18-252SST/ 100 ft	Z-1A	2	38.2	8	17.8	3	24	12			
W18-152/ 113 ft	Z-12	2	46.8	8	11.1	3	33	12	25	9	
W15-217/ 115 ft	Z-9	3	797	8	630	9	561	6	442	12	
CPT-24/ 118 ft	Z-9	3	44.6	8	37.7	9	37	6			
W15-220SST/ 118 ft	Z-9	4	21.9	8	not measured		36	3			
W18-158L/ 123 ft	Z-1A	3	not measured		143	3	492	12	196	9	
W18-167/ 123 ft	Z-1A	3	323	8	79.7	3	228	12	248	9	
W15-219SST/ 130 ft	Z-9	4	298	8	not measured		47	3			
W18-249/ 134 ft	Z-18	3	206	8	20.4	3	215	12	176	9	
W18-248/ 136 ft	Z-1A	3	288	8	86.3	3	177	12	188	9	
W15-219SST/ 155 ft	Z-9	5	59.6	8	not measured		24	3			
W15-220SST/ 185 ft	Z-9	5	14.5	8	not measured		13	3			
W15-8L/ 189 ft	Z-9	6	22.6	8	17.8	9	1.3	6			
W15-9L/ 189 ft	Z-9	6	18.3	8	15.0	9	15	6	14	12	
W18-7/ 200 ft	Z-1A	6	26.5	8	17.3	3	29	12			
W18-6L/ 208 ft	Z-1A	6	36	8	31.3	6	15	12			
W18-12/ 210 ft	Z-18	6	not measured		3.8	3	19	12			

* - based on location (Z-1A/18/12 or Z-9) of monitoring point; specific points may be beyond SVE zone of influence during particular operating configurations

- Z-18 and Z-12 wells off-line Oct 96 - Apr 98

- CPT-1A, CPT-9A, and possibly CPT-7A appeared to be beyond SVE zone of influence in Oct 96 based on differential pressure (BHI-01105, p. 6-1)

- CPT-9A, CPT-21A, CPT-28 beyond SVE zone of influence in May 96 based on CCl₄ concentrations and airflow modeling based on measured vacuums (BHI-01105, p. 6-1)

Carbon Tetrachloride Rebound Concentrations
 Monitored at 200-ZP-2 Soil Vapor Extraction Sites
 July 1999 - June 2000

200-ZP-2			07/30/99	09/14/99	9/28/99	10/26/99	11/30/99	12/29/99	01/25/00	03/07/00	06/02/2000	06/27/2000
Location	Site	Zone										
(Well or Probe)			CCl4	CCl4	CCl4	CCl4	CCl4	CCl4	CCl4	CCl4	CCl4	CCl4
/feet bgs			(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)
CPT-17/ 10 ft	Z-9	2	2.1	2.6	2.3	1.7	3.1	2.6	2.9	1.7	5.1	3.4
CPT-18/ 15 ft	Z-9	2	1.3	3.5	0	1.8	1.6	4.3	2.8	2.6	5.2	3.8
CPT-16/ 25 ft	Z-9	2				0	0	0	0	0	0	1.6
CPT-32/ 25 ft	Z-1A	2				0	0	1.5	3.8	9.4	8.6	7.2
CPT-30/ 28 ft	Z-1A	2				0	1.0	1.4	0	0	0	0
CPT-13A/ 30 ft	Z-1A	2				0	0	1.6	1.1	2.1	2.5	3.4
CPT-7A/ 32 ft	Z-1A	2				2.3	1.9	2.8	2.3	4.4	4.7	6.2
CPT-27/ 33 ft	Z-9	2				1.1	0	1.2	1.2	1.3	1.6	1.3
CPT-1A/ 35 ft	Z-12	2				2.5	3.1	2.8	4.1	3.3	4.2	3.7
CPT-21A/ 45 ft	Z-9	2	51.7	56.6	42	50.3	78	70.4	81.6	54.0	94	88.7
CPT-9A/ 60 ft	Z-9	2	---- (a)	43.9	44.0	32.9	39.3	43.5	38.1	33.2	43.9	67.6
W15-82/ 82 ft	Z-9	2	---- (a)	42.5	38.1	35.7	23.4	21.2	19.0	29.8	25.5	23.5
W15-95/ 82 ft	Z-9	2	---- (a)	8.3	7.6	9.0	11.2	12.0	14.5	13.2	21.2	21.7
CPT-21A/ 86 ft	Z-9	2	66.6	12.6	123	90.7	133	123	141	113	195	186
CPT-28/ 87 ft	Z-9	2	49.3	151	105	104	170	180	181	69.7	205	165
W18-152/ 113 ft	Z-12	2				1.8	22.1	24.7	17.7	3.7	22.9	3.1
W15-217/ 115 ft	Z-9	3	68.6	267	26.3	204	317	370	400	92.0	442	358
W18-158L/ 123 ft	Z-1A	3				79.6	103	134	132	152	134	196
W18-167/ 123 ft	Z-1A	3				88.8	115	144	109	104	248	227
W18-249/ 134 ft	Z-18	3				74.8	132	173	149	60.0	176	137
W18-248/ 136 ft	Z-1A	3				130	96.7	85.5	110	130	183	186
W15-9L/ 189 ft	Z-9	6	---- (a)	10.3	1.1	8.6	12.0	12.1	14.4	9.0	12.3	11.9
(a) sample pump failure												

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